

Secure Coding

Lab – 13

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Topic:

Automated Vulnerability Analysis and Patch Management

Experiment and Analysis

- Deploy Windows Exploit Suggester - Next Generation (WES-NG)
- Obtain the system information and check for any reported vulnerabilities.
- If any vulnerabilities reported, apply patch and make your system safe.
- Submit the auto-generated report using pwndoc.

Now we download wesng-master and run wes.py python file in our machine to check for vulnerabilities in our machine.

Before that we copy all our system info to one text file :

```
C:\Users\T480s>cd desktop
C:\Users\T480s\Desktop>cd wesng-master
C:\Users\T480s\Desktop\wesng-master>systeminfo>systeminfo_19BCN7041.txt
```

Output of wes.py in my machine:

```
C:\Users\T480s\Desktop\wesng-master>python wes.py --update
WARNING:root:chardet module not installed. In case of encoding errors, install chardet using: pip3 install chardet
Windows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )
[+] Updating definitions
[+] Obtained definitions created at 20210530

C:\Users\T480s\Desktop\wesng-master>python wes.py systeminfo_19BCN7041.txt
WARNING:root:chardet module not installed. In case of encoding errors, install chardet using: pip3 install chardet
Windows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )
[+] Parsing systeminfo output
[+] Operating System
  - Name: Windows 10 Version 20H2 for x64-based Systems
  - Generation: 10
  - Build: 19042
  - Version: 20H2
  - Architecture: x64-based
  - Installed hotfixes (8): KB5003254, KB4562830, KB4577586, KB4580325, KB4589212, KB4598481, KB5003173, KB5003242
[+] Loading definitions
  - Creation date of definitions: 20210530
[+] Determining missing patches
[+] Found vulnerabilities

Date: 20210216
CVE: CVE-2021-24111
KB: KB4601050
Title: .NET Framework Denial of Service Vulnerability
Affected product: Microsoft .NET Framework 4.8 on Windows 10 Version 20H2 for x64-based Systems
Affected component: Issuing CNA
Severity: Important
Impact: Denial of Service
Exploit: n/a

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[+] Missing patches: 1
  - KB4601050: patches 2 vulnerabilities
[+] KB with the most recent release date
  - ID: KB4601050
  - Release date: 20210216

[+] Done. Displaying 2 of the 2 vulnerabilities found.

C:\Users\T480s\Desktop\wesng-master>
```

It is showing 1 missing patch with id **“KB4601050”**

We have to fix this patch to keep our machine out of vulnerabilities we will download this patch and run it and again do the same process to check for the vulnerabilities.

Now we check the Microsoft catalog for this missing patch

Microsoft Update Catalog

KB4601050 Search

Search results for "KB4601050"

Updates: 1 - 10 of 10 (page 1 of 1)

Title	Products	Classification	Last Updated	Version	Size	Download
2021-02 Cumulative Update for .NET Framework 3.5 and 4.8 for Windows Server, version 20H2 for x64 (KB4601050)	Windows Server, version 1903 and later	Security Updates	2/8/2021	n/a	65.0 MB	Download
2021-02 Cumulative Update for .NET Framework 3.5 and 4.8 for Windows 10, version 20H2 for ARM64 (KB4601050)	Windows 10, version 1903 and later	Security Updates	2/8/2021	n/a	41.6 MB	Download
2021-02 Cumulative Update for .NET Framework 3.5 and 4.8 for Windows 10, version 20H2 (KB4601050)	Windows 10, version 1903 and later	Security Updates	2/8/2021	n/a	41.6 MB	Download
2021-02 Cumulative Update for .NET Framework 3.5 and 4.8 for Windows 10, version 20H2 for x64 (KB4601050)	Windows 10, version 1903 and later	Security Updates	2/8/2021	n/a	65.0 MB	Download
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2021-02 Cumulative Update for .NET Framework 3.5 and 4.8 for Windows 10 Version 2004 for ARM64 (KB4601050)	Windows 10, version 1903 and later	Security Updates	2/8/2021	n/a	41.6 MB	Download
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My system version:



As we can see there is no matching patch as same version of my system.

So this patch is unavailable we can't fix this vulnerability.

